

IRIS

CHO DG44 culture medium

Serum free, animal component free, for recombinant protein production.



BENEFITS

Developed to maximize recombinant protein production with CHO transfected cells. The medium provides higher growth of transfected CHO cells compared to other media. The medium offers

Simplicity: Ideal from bench to manufacturing scale.

Serum-free and animal component free: Reduces the risk for animal derived contaminants.

Fully defined: It doesn't contain hydrolysates or other complex additives. Thus, process variability is reduced.

Antibiotic-free: No risk of antibiotic traces, hidden contamination and endotoxins.

PRODUCT INFORMATION

IRIS medium is free of serum, animal components and hydrolysates. The medium is developed for maximal recombinant protein production in suspension cells. If combined with IRIS Feeds medium supports a viable cell concentration up to 3×10^7 /mL depending on clone performance. CHO transfected suspension cells have been carried for more than 2 years in IRIS medium with no loss of viability.

IRIS medium is easy-to-use and suitable for suspension cultures. It requires only minimal or no adaptation from other serum-free media.

APPLICATION

IRIS medium is dedicated to maximal production of recombinant proteins with CHO DG44 cells.

IRIS is suitable for human like glycosylation, for example Erythropoietin, antibodies, Fc-fusion proteins.

MEDIUM SPECIFICATION

Name	IRIS
Regulatory	Serum-free, animal component free, hydrolysate free, antibiotic free
Available Form	Liquid
Cell Line	CHO DG44 suspension
Storage Condition	2-8 °C, protect from light
Application	For research and manufacturing

IRIS PERFORMANCE

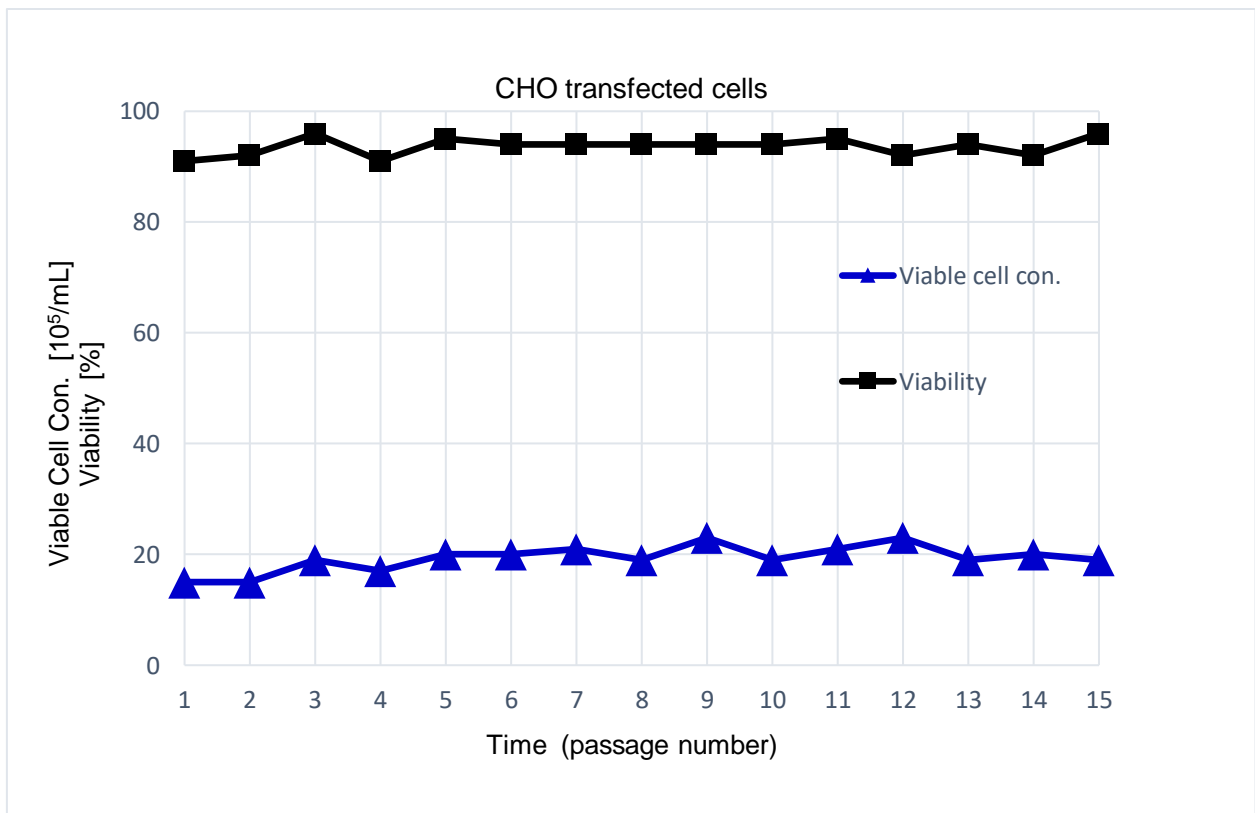


Figure 1: CHO transfected suspension cells are cultured in stock culture (shake flask) in IRIS S medium for 15 passages. Cells were expressing a biosimilar IgG antibody. Inoculation cell concentration was kept by 3×10^5 /mL. Cells were split every 3rd day.

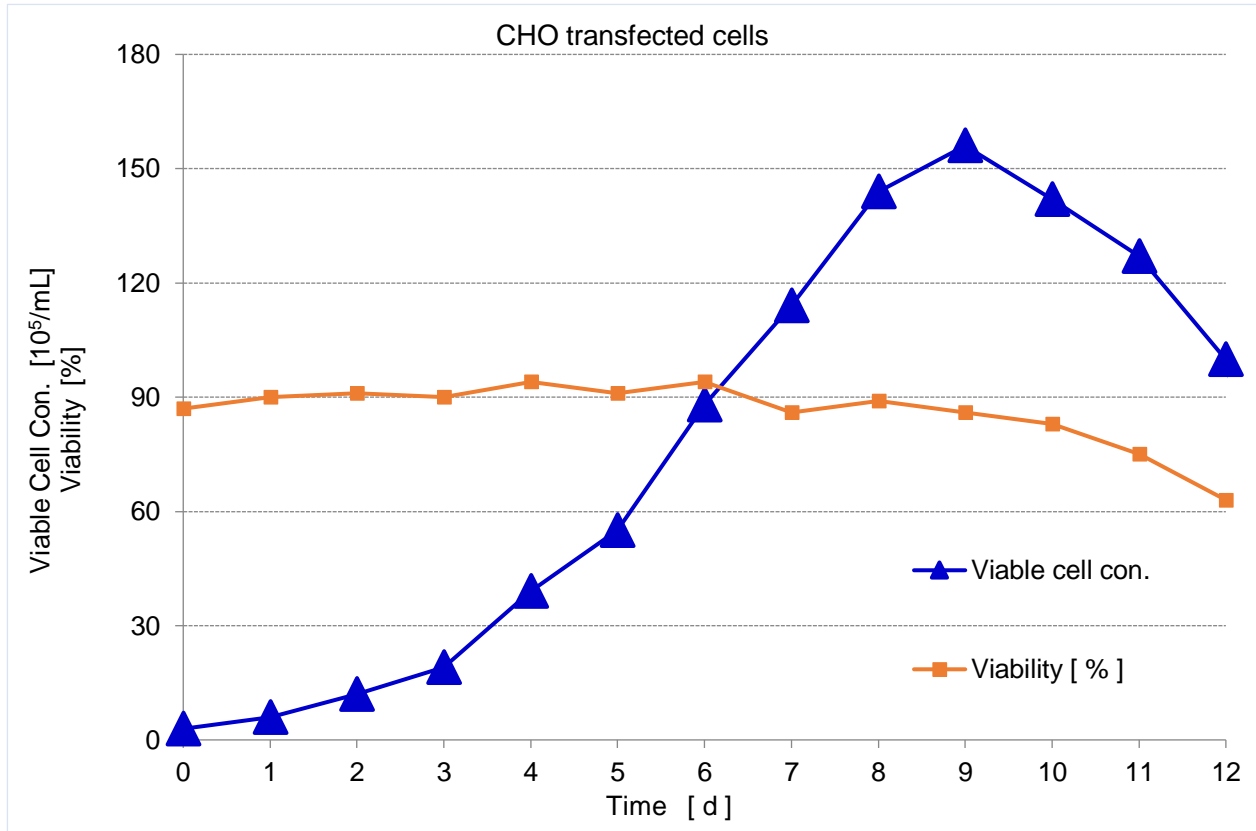


Figure 2: Cell growth performance of CHO transfected suspension cells in IRIS P medium with combination of IRIS Feeds for 12 days as fed-batch experiment. Cells were producing a biosimilar antibody. Viability was kept above 70% for 12 days. A peak cell concentration of $1.6 \times 10^7/\text{mL}$ is achieved.

ORDERING INFORMATION

Name	Application	Formulation	Volume	Catalogue number
IRIS P	Production medium	Liquid	1 L	IRSP46-L1
IRIS P	Production medium	Liquid	0,5 L	IRSP46-L05
IRIS S	Stock culture medium	Liquid	1 L	IRSS6-L1
IRIS S	Stock culture medium	Liquid	0,5 L	IRSS6-L05
IRIS FEED A	Feed A medium	Liquid	0,5 L	IFA77-L05
IRIS FEED B	Feed B medium	Liquid	0,1 L	IFB24-L01

Custom made media are possible.

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